



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/06/2022

Lab ID : CP-2022-10-13-08
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-22
Customer ID : Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Slab Concrete	M20	28/05/2022	25/06/2022	151.79 X 151.25 X 150.29	22958	8.627	544.4	23.7	23.1
2	Slab Concrete	M20	28/05/2022	25/06/2022	151.53 X 149.61 X 150.84	22670	9.091	502.1	22.1	
3	Slab Concrete	M20	28/05/2022	25/06/2022	149.09 X 150.34 X 151.55	22414	8.168	522.6	23.3	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Project Division
Yelabanka Zone
BBMP, Bangalore - 92

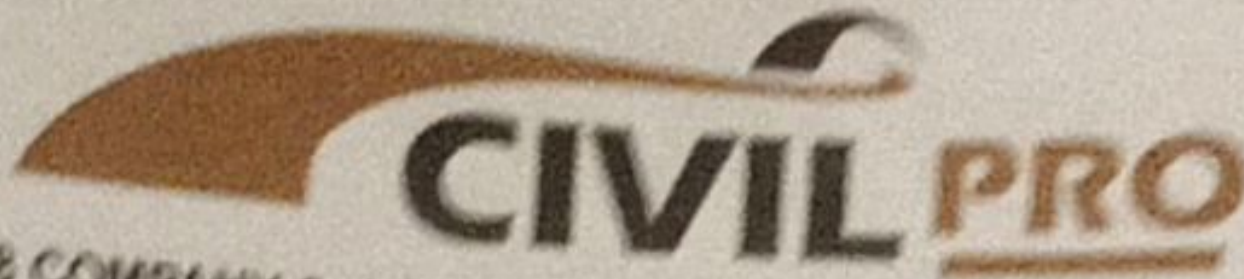


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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN HALLESWARAH, BANGALORE -3

Certificate No: CP-2248

Form No: CP/PR/01

Lab ID : CP-2022-10-13-08
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No. 10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Damarahalli, Banashankar, Bangalore-79
Customer's Reference : EE(Project)/Yak Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-22
Customer ID : Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Slab Concrete	M20	28/05/2022	04/06/2022	151.66 X 150.36 X 150.58	22805	8.838	429.7	18.8	18.5
2	Slab Concrete	M20	28/05/2022	04/06/2022	149.36 X 149.98 X 149.95	22401	8.343	404.5	18.1	
3	Slab Concrete	M20	28/05/2022	04/06/2022	149.50 X 151.93 X 151.17	22714	8.837	420.8	18.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

Lab ID : CP-2022-10-13-08
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 30-05-22
Customer ID : Slab Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

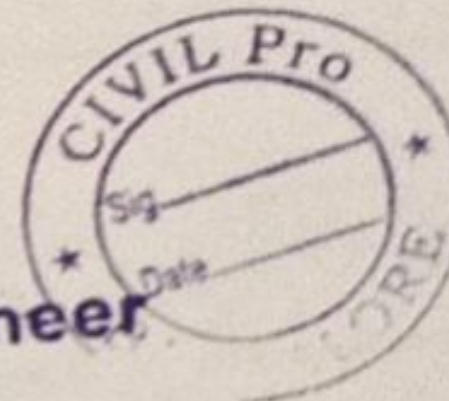
Date of test : 25/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Slab Concrete	M20	28/05/2022	25/06/2022	149.91 X 149.01 X 151.61	22337	8.959	519.9	23.3	23.2
2	Slab Concrete	M20	28/05/2022	25/06/2022	151.22 X 149.40 X 149.44	22592	8.992	515.6	22.8	
3	Slab Concrete	M20	28/05/2022	25/06/2022	151.72 X 151.51 X 151.18	22988	8.537	537.8	23.4	

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TEST REPORT FOR SAND MASONRY MORTARS

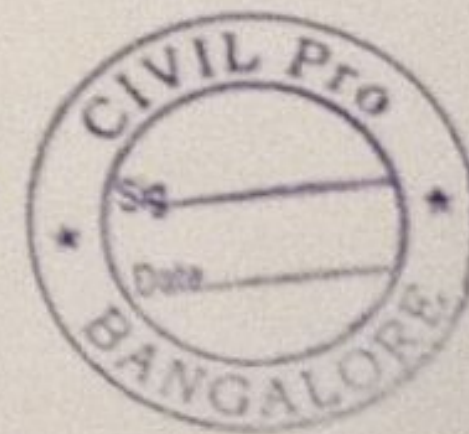
Lab ID : CP-2022-10-13-08 Date: 18-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-22
Sample Type : Fine Aggregate, M.Sand for Mortar
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 15-04-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID

CP-2022-10-13-08

Date: 18-04-22

PHYSICAL PROPERTIES

Slno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	—
2	Specific Gravity	2.51	—
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	—
5	Loose Bulk Density (Kg/litre)	1.73	—

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TEST REPORT FOR PLASTER SAND

Lab ID : CP-2022-10-13-08 Date: 19-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli,
Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-22
Sample Type : Plaster Sand
Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (RA 2019) (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 15-04-22

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

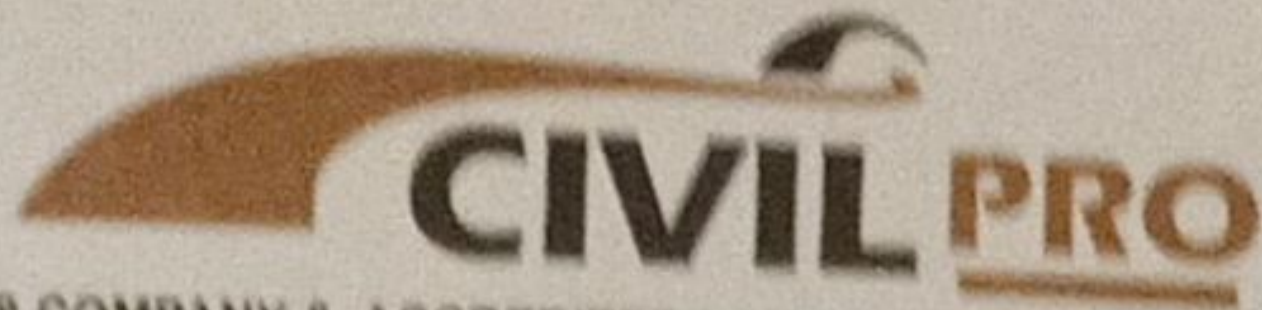
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Certificate No: TP-5548

TEST REPORT OF FINE AGGREGATE

Lab ID

1

CP-2022-10-13-08

Date: 19-04-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC-5548

TEST REPORT OF CERAMIC TILES

Lab ID : CP-2022-10-13-08 Date: 21-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-04-22
Sample Type/ Size : Ceramic tiles (400X400)mm
Reference to BIS codes : IS 13630 (part 1) : 2019, IS 15622:2018
Date of test : 15-04-22

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	10.05	10.02	10.08	10.04
2	400	400	400	400	10.01	10.03	10.06	10.03
3	400	400	400	400	10.02	10.04	10.07	10.08
4	400	400	400	400	10.04	10.05	10.04	10.04
5	400	400	400	400	10.08	10.09	10.03	10.07
6	400	400	400	400	10.02	10.07	10.02	10.03
7	400	400	400	400	10.06	10.01	10.05	10.03
8	400	400	400	400	10.05	10.02	10.01	10.02
9	400	400	400	400	10.07	10.04	10.04	10.01
10	400	400	400	400	10.09	10.09	10.06	10.07
Average	400		400		10.05			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1435	1485	3.48	3.74
2	1425	1476	3.58	
3	1409	1465	3.97	
4	1415	1470	3.89	
5	1432	1486	3.77	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No					
Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm ²)	(N/mm ²)
1	400	400	10.06	14.8	14.66
2	400	400	10.09	14.2	
3	400	400	10.08	14.9	
4	400	400	10.03	14.8	
5	400	400	10.05	14.6	

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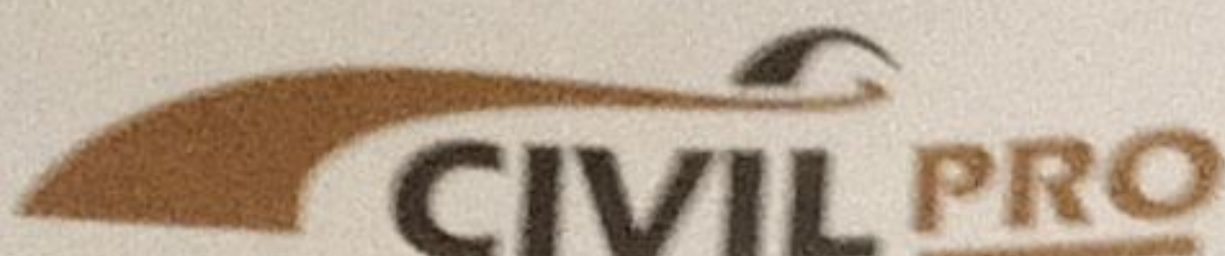
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. : TO-5648

Format No. CP/11/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 23-04-22

Lab ID : CP-2022-10-13-08
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No. 10
Agency : Sri. M C Adresh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwara Nagar, Bangalore-79
Customer's Reference : EE(Project) Ynk Zone/ WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-04-22
Sample Type/Size : Solid concrete blocks size (400X200X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005 (RA 2010) Concrete Masonry Specification Part 1: Hollow and Solid Concrete Blocks (Dimensions - Annex-B, Clause 9.2 and 10, Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 19-04-22

BLOCK DENSITY:

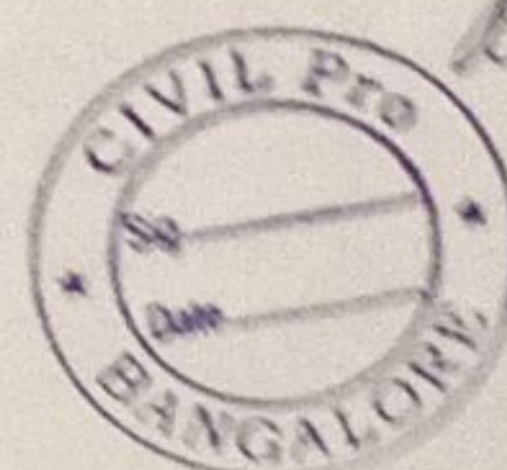
Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185 (Part 1) : 2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	400	202	199	16079	31.180	1939.2	2008.0	Not less than 1800Kg/m ³
2	400	199	203	16159	32.883	2035.0		
3	403	200	201	16201	33.210	2049.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185 (Part 1) : 2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

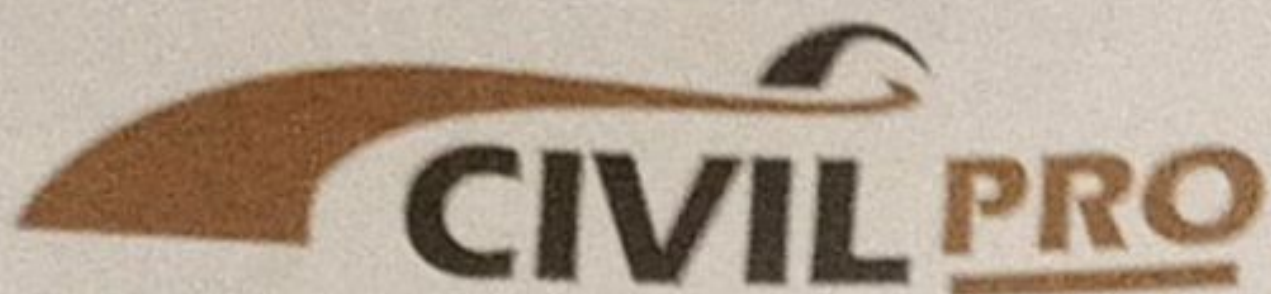
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Certificate No.: TC-5548

Lab ID

: CP-2022-10-13-08

Date: 23-04-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	199	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	404	202	199	
3	401	200	203	
4	399	200	200	
5	404	200	199	
6	400	202	202	
7	401	200	201	
8	404	202	201	
9	401	202	200	
10	400	203	203	
11	400	202	201	
12	400	202	203	
13	401	200	201	
14	400	202	202	
15	403	200	200	
16	404	200	199	
17	401	200	200	
18	402	202	202	
19	400	201	199	
20	403	202	200	
Average of 20	401	201	201	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID

: CP-2022-10-13-08

Date: 23-04-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	200	80111	379.2	4.7	4.7
2	404	202	81524	374.1	4.6	
3	401	200	80117	372.1	4.6	
4	399	200	80014	379.9	4.7	
5	404	200	80557	373.7	4.6	
6	400	202	80565	378.6	4.7	
7	401	200	80296	380.5	4.7	
8	404	202	81511	379.8	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate



Asst. Executive Engineer
Project Division
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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2022-10-13-08 Date: 23-04-22
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Providing of Ladies Toilet in Govt School in Doddabommasandra in Ward No.10
Agency : Sri. M C Adarsh, #2/427, 8th Main, 17th Cross, Agrahara Dasarahalli, Basaveshwaranagara, Bangalore-79
Customer's Reference : EE(Project)/Ynk Zone/WO/137/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-04-22
Sample Type/Size : Solid concrete blocks size (400X100X200)mm
Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10, Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test : 19-04-22

BLOCK DENSITY:

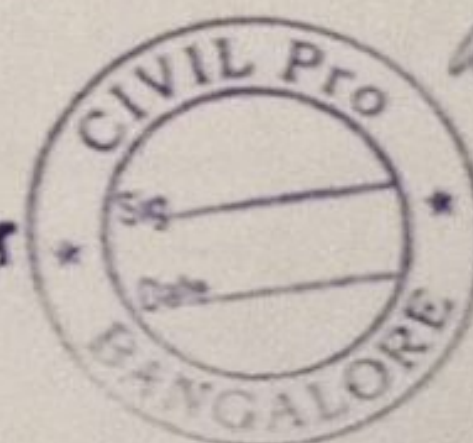
Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁵	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	399	100	203	8100	16.001	1975.5	2054.8	Not less than 1800Kg/m ³
2	402	101	202	8202	16.809	2049.5		
3	404	99	200	7999	17.114	2139.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	17.99	4.89	4.25	Shall not be more than 10% by mass
2	19.57	18.74	4.28		
3	18.94	18.26	3.59		

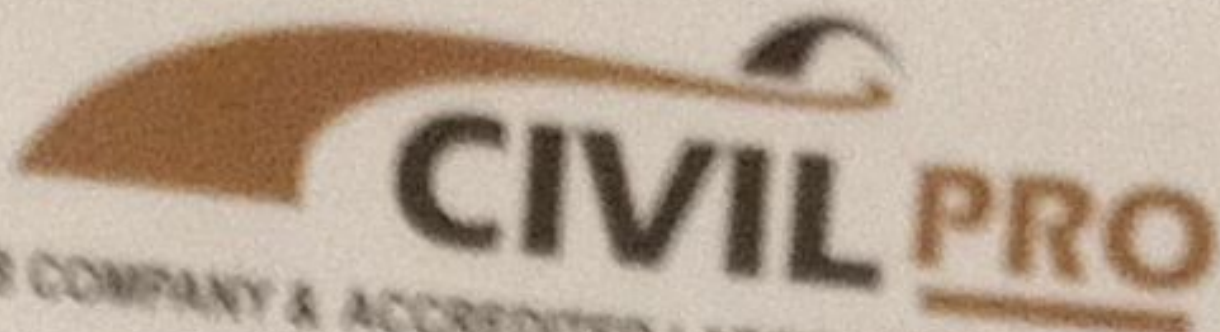
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Lab ID

CP-2022-10-13-08

Certificate No.: TC-0248

DIMENSION ANALYSIS

Date: 23-04-22

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2155(Part 1):2005
1	399	100	200	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	402	99	202	
3	404	100	203	
4	400	99	199	
5	402	100	200	
6	402	101	203	
7	403	101	200	
8	401	101	201	
9	401	103	202	
10	401	102	203	
11	402	103	202	
12	400	101	202	
13	402	103	201	
14	402	99	201	
15	400	100	199	
16	403	99	201	
17	402	103	202	
18	400	100	202	
19	401	102	201	
20	403	99	202	
Average of 20	402	101	201	

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COMPRESSIVE STRENGTH:

SL No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	100	40170	156.3	3.9	4.0
2	402	99	39881	160.2	4.0	
3	404	100	40346	162.1	4.0	
4	400	99	39793	160.0	4.0	
5	402	100	40039	163.4	4.1	
6	402	101	40414	165.2	4.1	
7	403	101	40641	168.8	4.2	
8	401	101	40674	165.2	4.1	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
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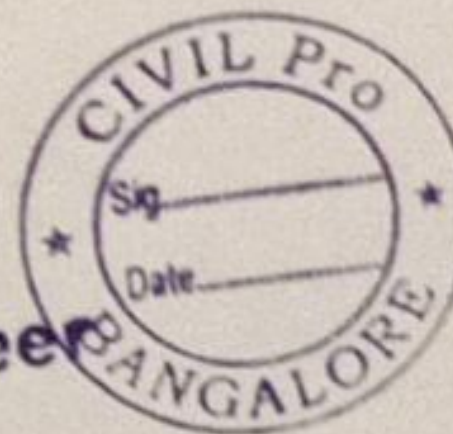
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